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| NWS FORM E-5 COMMERCE | U.S. DEPARTMENT OF NOAA, NATIONAL WEATHER | HSA OFFICE: San Juan, PR (SJU) |
| SERVICE | | REPORT FOR (MONTH / YEAR): August, 2005 |
| MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS | | DATE: October 31, 2005 |
| TO: NATIONAL WEATHER SERVICE HYDROMETEOROLOGICAL INFO CENTER, W/OS31 SSMC 2 – Room 13468 1325 EAST-WEST HIGHWAY SILVER SPRING, MD 20910-3283 | | SIGNATURE: Althea Austin-Smith |
| When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOM E-41). | | |

Summary: The month of August was wetter than normal in both Puerto Rico and in St Thomas, USVI. The monthly climate data for San Juan (ASOS) indicated that for the 31 days of August 2005, the total for San Juan, PR was 7.14 inches ... 1.92 inches greater than the normal of 5.22 inches. This total was recorded as a record for the month of August ... previous to this, the greatest rainfall amount reported was 6.70 inches in 2002. At the Truman Field in St. Thomas, USVI, the rainfall was even higher with a total for August of 8.19 inches which was 4.69 inches greater than the normal of 3.50 inches.

The weather pattern throughout the month of August was rather consistent with a series of tropical waves moving through the islands. These waves seemed to be on a steady pulse ... one wave moves through producing copious amounts of rainfall followed by a short lapse with another wave waiting in the wings.

As with tropical waves during this time of year in the Caribbean, flooding was expected, prevalent and just as consistent as the weather pattern. Most of the flooding was in the form of urban / small stream and poor drainage flooding since much of the rainfall was convective with localized bands of high intensity rainfall. At the beginning and the middle of the month of August, the rainfall was much more widespread and this created floods on the larger river systems ... including the Rio Grande de Manati, Rio Grande de Loiza, Rio Grande de La Plata, Rio Grande de Arecibo and Rio Culebrinas.

Most of the flooding at the gaged locations was in the minor category with crests 4.0 feet or less above the defined flood stage with the exception of the Rio Grande de Manati at Manati where the crest was 30.06 feet at the beginning of the month ... 5 feet above flood stage (31.0 feet is moderate flooding). Five (5) River Flood Warnings (SJUFLWSJU) were issued during the month of August in response to the flooding at the NWS forecast points.

The monthly Non-Routine Hydrologic products are as follows:
A total of 57 Urban / Small Stream Flood Advisories (SJUFLSSJU) were issued during the month of August. This flooding usually results in some road flooding and closures. 16 Flash Flood Warnings were issued and 8 Flood Watches.

| Non-Routine Hydrologic Products Issued: | Number of Products for the month |
|---|----------------------------------|
| Hydrologic Outlooks (SJUESFSJU) | 0 |
| Flood Watches (SJUFFASJU) | 8 |

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| Flood Warnings (SJUFLWSJU) | 5 |
| Flash Flood Warnings (SJUFFWSJU) | 16 |
| Urban/Small Stream Flood Advisories (SJUFLSSJU) | 57 |